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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.
09/501.033	02/09/00	MESS		L	11675.168.1
-			$\neg$		EXAMINER
022901		MMC1/0613	,		
BRADLEY K DESANDRO				NGLIYE	N. V
1000 EAGLE	GATE TOWER			ART UNIT	PAPER NUMBER
60 EAST SOU	TH TEMPLE				
SALT LAKE CITY UT 84111				2858	
		_		DATE MAILED	<b>)</b> :
					06/13/00

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

	Application No.	Applicant(s)
	09/501,033	MESS, LEONARD E.
Office Action Summary	Examiner	Art Unit
	VINH P NGUYEN	2858
The MAILING DATE of this communication	appears on the cover sheet w	ith the correspondence address
Period for Reply  A SHORTENED STATUTORY PERIOD FOR RE	EDI V IS SET TO EXPIDE 3 I	MONTH(S) EPOM
THE MAILING DATE OF THIS COMMUNICATION		VOIVITI(O) I NOIVI
Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this com     If the period for reply specified above is less than thirty (30 be considered timely.     If NO period for reply is specified above, the maximum sta communication.     Failure to reply within the set or extended period for reply status.	nmunication.  ) days, a reply within the statutory returning tutory period will apply and will expi	ninimum of thirty (30) days will re SIX (6) MONTHS from the mailing date of this
1) Responsive to communication(s) filed on	<u>08 May 2000</u> .	
2a) ☐ This action is FINAL. 2b) ∑	This action is non-final.	
3) Since this application is in condition for al closed in accordance with the practice un		
Disposition of Claims		
4) Claim(s) 1-61 is/are pending in the application	ation.	
4a) Of the above claim(s) is/are with	ndrawn from consideration.	
5) Claim(s) is/are allowed.		
6)  Claim(s) <u>1-61</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claims are subject to restriction an	nd/or election requirement.	
Application Papers		
9) The specification is objected to by the Exa	miner.	
10) The drawing(s) filed on is/are object	ted to by the Examiner.	
11) The proposed drawing correction filed on _	is: a) approved b) [	disapproved.
12) The oath or declaration is objected to by the	e Examiner.	
Priority under 35 U.S.C. § 119		
13) Acknowledgment is made of a claim for for	eign priority under 35 U.S.C.	<b>§</b> 119(a)-(d).
a) ☐ All b) ☐ Some * c) ☐ None of the CEF		
1. received.		
2. received in Application No. (Series 0	Code / Serial Number)	
3. received in this National Stage applie	cation from the International	- Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a	list of the certified copies no	t received.
14) Acknowledgement is made of a claim for d	omestic priority under 35 U.S	S.C. & 119(e).
Attachment(s)		
<ul> <li>15) Notice of References Cited (PTO-892)</li> <li>16) Notice of Draftsperson's Patent Drawing Review (PTO-946)</li> <li>17) Information Disclosure Statement(s) (PTO-1449) Paper No.</li> </ul>	B) 19) 🔲 Notice o	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)
U.S. Patent and Trademark Office PTO-326 (Rev. 3-98) Office	e Action Summary	Part of Paper No. 5

- The abstract of the disclosure is objected to because legal phraseology such as "comprised" is used. Correction is required. See MPEP § 608.01(b).
- 2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
- The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-9,17-24,28-30,33-35,37-38,40-42,44-47,49-52,54-57 and 59-61 are rejected under 35 U.S.C. 102(b) as being anticipated by Lim et al (Pat # 5,530,376).

As to claims 1-9, 17-24,28-30,33-35,37-38,40-42,44-47,49-52,54-57 and 59-61, Lim et al disclose a carrier for burn-in/testing of non-package die as shown in figure 1,2 and 4 having an interposer and a resilient connector (1-3,4,13) for holding the semiconductor device (6) stationary relative to the interposer. According to Lim et al ,the interposer comprises substrate (12) made of ceramic material, a plurality of electrical conductors (16) with receiving ends (17) projected and disposed within a recess of the substrate (12), for connecting to a semiconductor device (6).

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made

6. Claims 10-16,25,31-32,36,39,43,48,53 and 58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lim et al (Pat # 5,530,376).

Lim et al disclose a reusable carrier as mentioned in paragraph # 4. As to claims 1011,15,16,31-32, the material for the connector would have been an obvious design choice as long as it can bias and hold the semiconductor device in place properly. As to claims 12, it appears that the semiconductor of Lim et al is exposed to the atmosphere to thereby dissipate heat to the atmosphere. As to claim 13, it appears that the connector of Lim et al removably connects the semiconductor device to the interposer. As to claim 14, it appears that the connector of Lim et al is a resilient biasing clip. As to claims 25, 36 the material for the substrate such as "Boron Nitride" or "alumina" would have been well known insulated materials in the art. As to claims 39,43,48,53 and 58, it would have been well known for one of ordinary skill in the art to adhessively connects the semiconductor device to the interposer.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure

Gochnour et al (Pat # 5,915,755) disclose method for forming an interconnect for testing unpackaged semiconductor dice.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VINH P. NGUYEN whose telephone number is (703) 305-4914.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4900.

VINH P. NGUYEN

PRIMARY EXAMINER

ART UNIT 2858